

# **Ryan Chouest daily data transmission and report**

***Period covered: 1000 hrs 07/03/2010-1000 hrs 07/04/2010***

***90.603 - Nautical miles covered***

## **Vessel science party:**

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## **Cruise notes:**

An update to the cruise route and a request to observe sea mammals, sent by Simon Lisiecki, were received at 1140 hrs.

At 1218 hrs, the captain stressed about license restrictions that limits operation of the ship not further than 200 miles of the coast, meaning certain portions along the WSW and NW track of the planned route would fall beyond 200 miles beginning at 25 ° 35' N and 85 °W location. Gaining choppy currents prompted the crew to retrieve the pump at 2155 hrs.

## **Science results and preliminary interpretation:**

### Fluorometry results

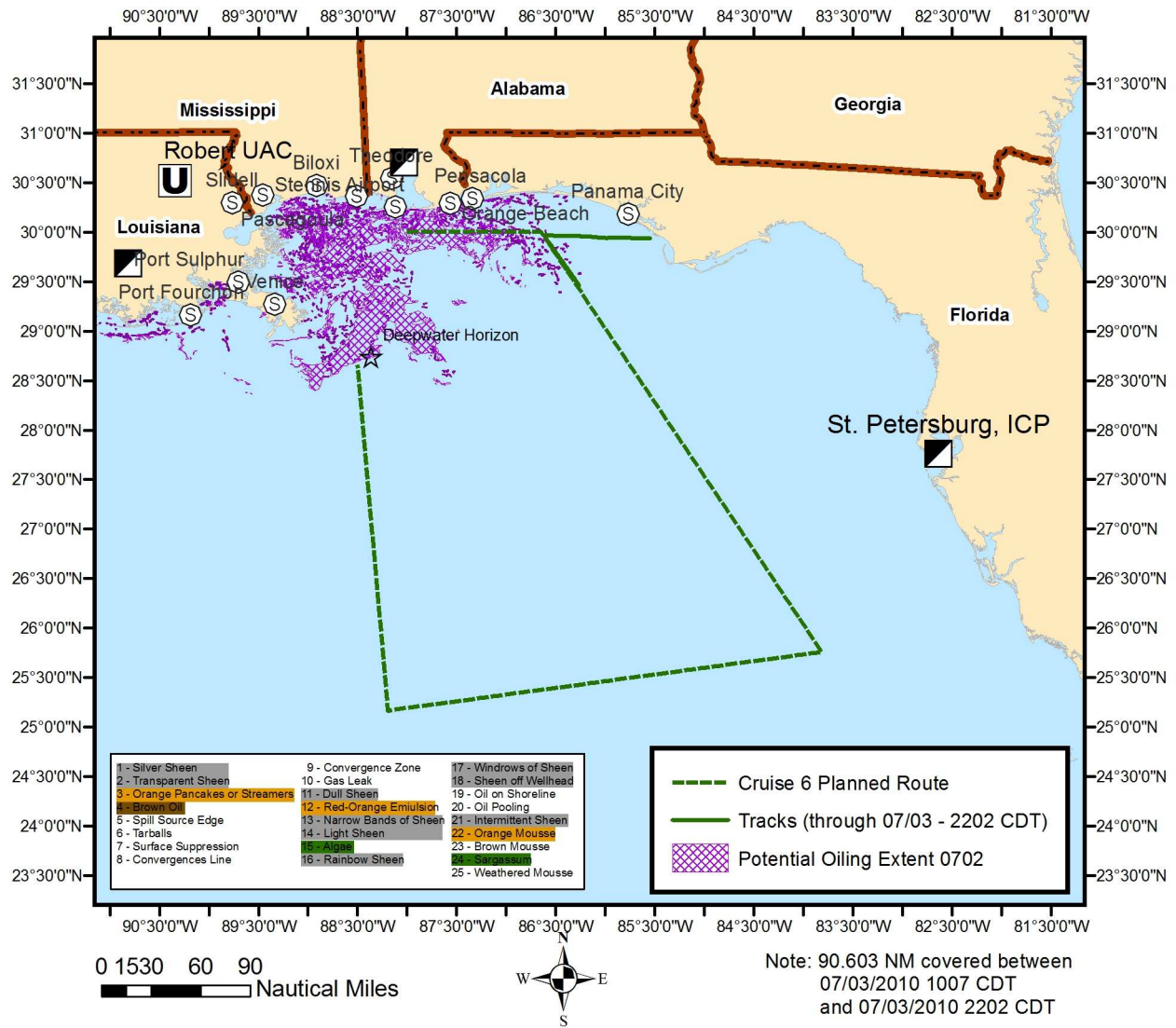
The Chelsea, Trios, and Contros fluorometry data show low inferred poly aromatic hydrocarbon concentrations over the track covered (Figures 2-4). Review of the sensor data indicates all three sensors showed slightly elevated level of sensor readings when the survey vessel was in the area with scattered oil slicks as shown in the ERMA 0702 situational map.

### Surface Observations

Clear waters, while headed WSW, towards SE segment of planned route (Figure 1) and occasional scatter of seaweed observed throughout track. A whale and a few dolphins were observed along the SE track at 29°58' N and 86°34'W.

# Ryan Chouest Cruise 6 Data

(07/03/2010 1007 CDT - 07/03/2010 2202 CDT)

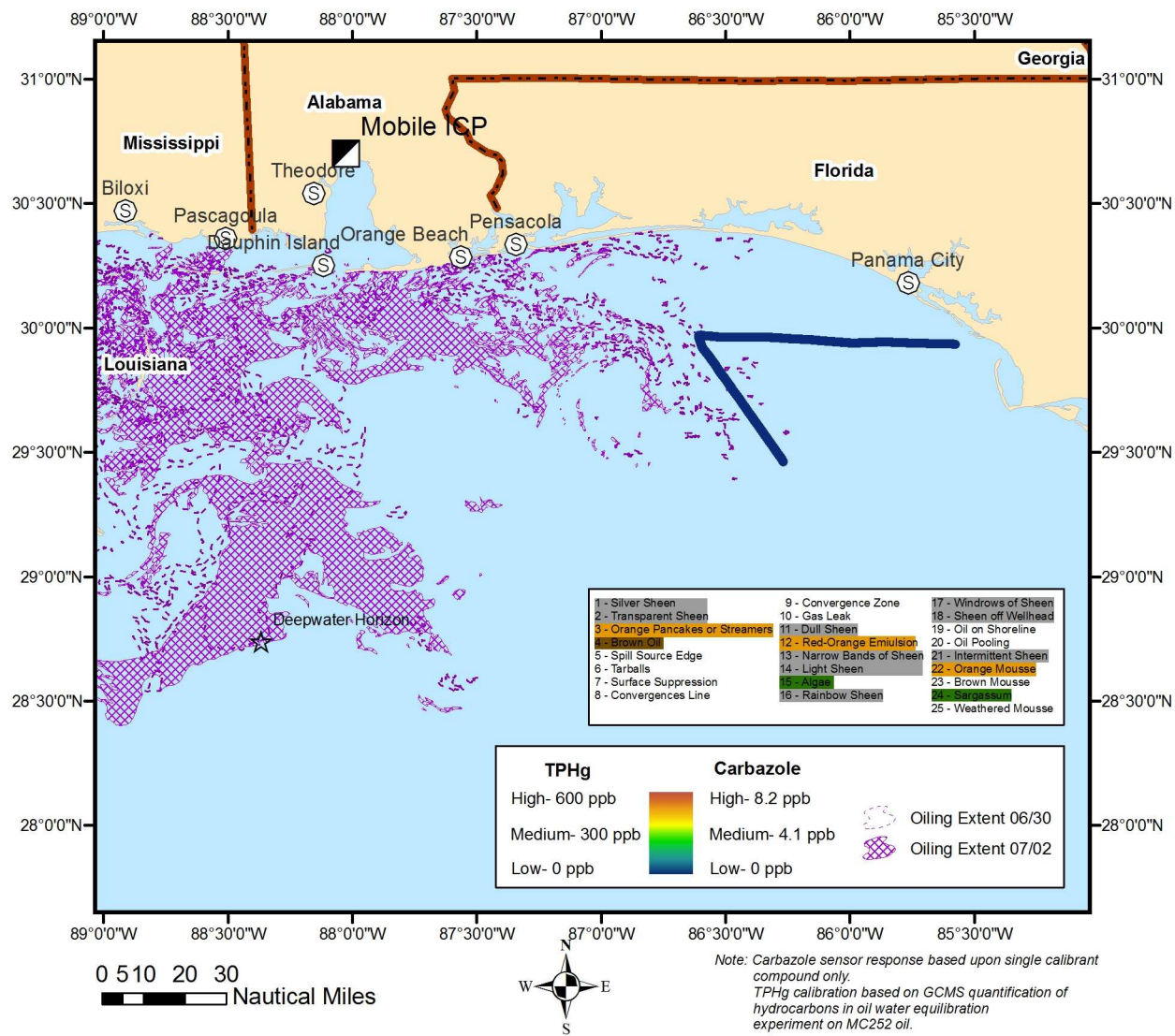


**Figure 1:** Planned course plotted for Cruise 6. Purple shaded area represents outline extent of the slick from 07/02 ERMA composite.

# Ryan Chouest Cruise 6 Data

## Chelsea - Fluorometer

(07/03/2010 1007 CDT - 07/03/2010 2202 CDT)

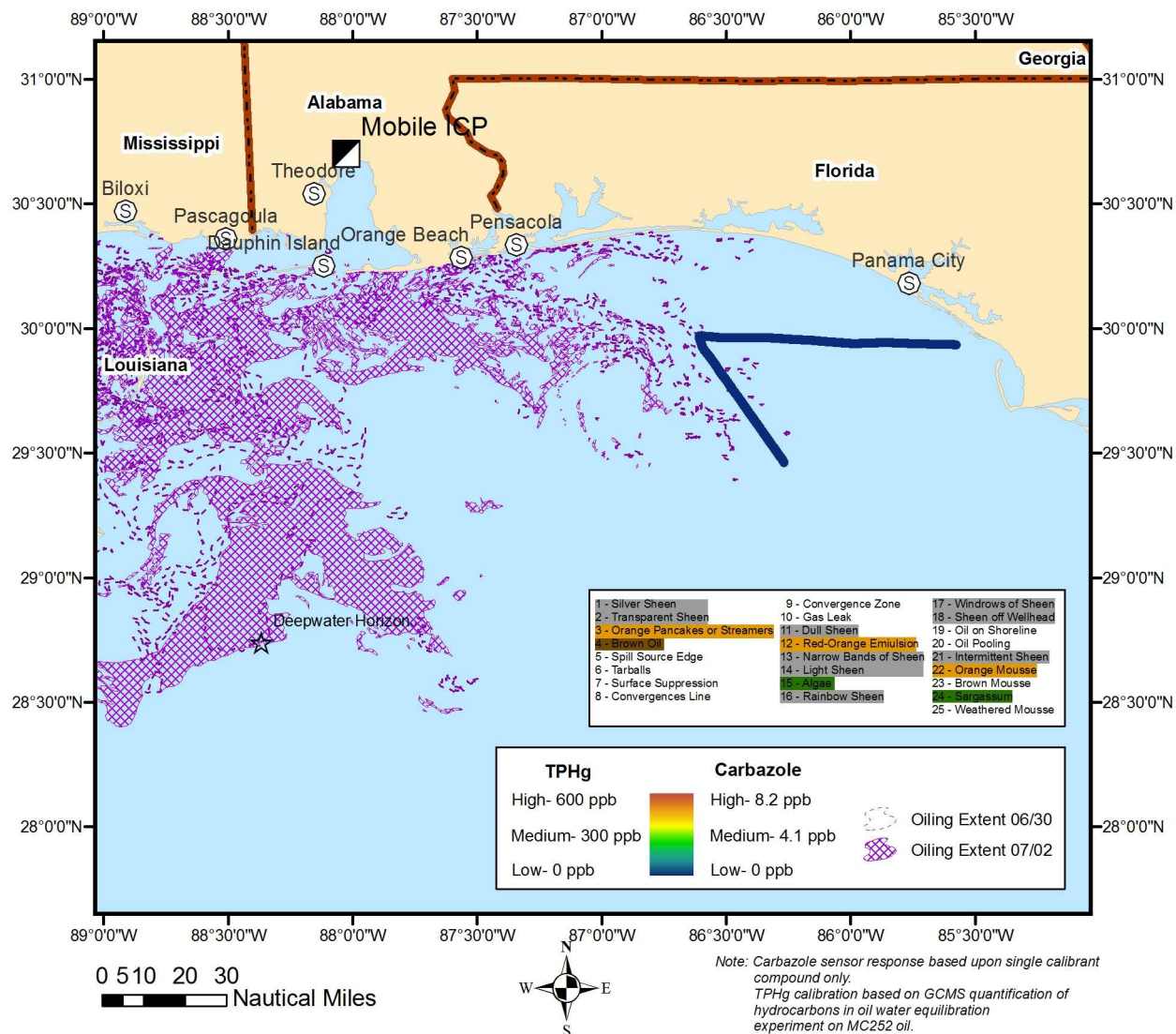


**Figure 2.** Chelsea fluorometer results plotted with location on updated cruise 6 track as of 03/07/2010.

# Ryan Chouest Cruise 6 Data

## Trios- Fluorometer

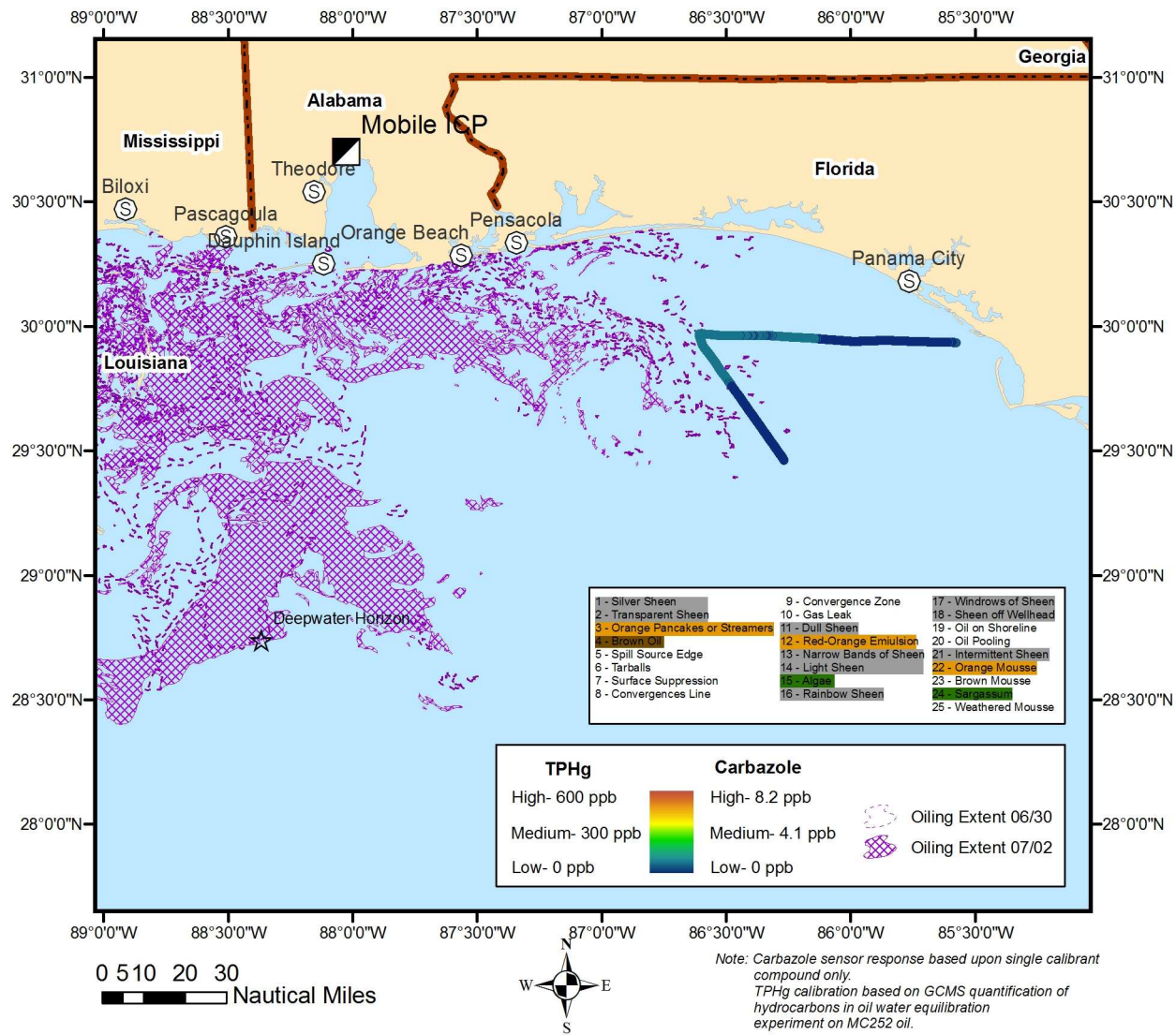
(07/03/2010 1007 CDT - 07/03/2010 2202 CDT)



**Figure 3.** Trios fluorometer results plotted with location on with updated cruise 6 track as of 03/07/2010.



# Ryan Chouest Cruise 6 Data Contros - Fluorometer (07/03/2010 1007 CDT - 07/03/2010 2202 CDT)



**Figure 4.** Contros fluorometer results plotted with location updated cruise 6 track as of 03/07/2010.

## Problems/operational issues:

Irregular internet access has become a routine issue. Attempts to send the daily reports failed.

C&C Surveyor's inability to draw a track for the updated cruise 6 route, citing limited data size capability of their software in terms of being able to handle data points for a large area. Hence, a great portion of the area covered on the updated route does not have the map background.

## Planned activities for next 24 hours:

The Ryan Chouest would continue taking water samples along the SE portion of planned route till communication is re-established and further update track is received.